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(54) DOUBLE FEED DETECTING DEVICE

(57) Abstract:

**PURPOSE:** To stably detect a double feed by providing a brake means, a brake control circuit, sensors for detecting the times of pass of mediums on the inlet and outlet sides, a sensor detection circuit for comparing the above-mentioned times of pass with each other so as to detect a double feed.

**CONSTITUTION:** A control section 33 transmits data concerning the thickness, kind, and the like of mediums 11 to a brake control circuit 28 which therefore feeds a current in accordance with the mediums 11 to an electromagnetic brake so as to give a predetermined braking force thereto. With the manipulation of the control section 33, the mediums 11 are fed under the control of a drive control circuit 24. During this conveyance, input side sensor 29, an intermediate sensor 30 and an output side sensor 31 count the times of pass of the mediums 11. If a double feed occurs, the mediums 11 on the brake roller 18 side and the brake roller 19 side are stopped by a brake force of the elec-

tromagnetic brake so as to give a slip therebetween. Then, the sensor 31 detects a time which is longer by a value corresponding to the slip, and a sensor detection circuit 32 compares the times of pass at the sensors 29, 31 with each other so as to deliver a detection signal for indicating a double feed.

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